Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1. [Currently Amended] A method comprising the steps of:
- (a) receiving one or more user-selected grid aligning parameters, wherein the user-selected grid aligning parameters includes an estimated probe feature size;
- ([[a]]b) aligning a grid with a first image based, at least in part, upon the one or more user-selected grid aligning parameters;
- ([[b]]c) generating grid alignment data based on the alignment of the grid with the first image;
 - ([[c]]d) storing the grid alignment data in memory;
- ([[d]]e) retrieving the grid alignment data responsive to an indication to analyze a second image; and
 - ([[e]]f) analyzing the second image based on the retrieved grid alignment data.
- Claim 2. [Original] The method of claim 1, wherein:
 the first image is generated by scanning a first probe array; and
 the second image is generated by scanning the first probe array.
- Claim 3. [Original] The method of claim 2, wherein:
- the first image is generated by scanning the first probe array with a first excitation beam; and
- the second image is generated by scanning the first probe array with a second excitation beam.
- Claim 4. [Original] The method of claim 3, wherein: the first excitation beam has a first wavelength; and

the second excitation beam has a second wavelength different from the first wavelength.

- Claim 5. [Original] The method of claim 2, wherein: the first probe array is a spotted array.
- Claim 6. [Original] The method of claim 2, wherein: the first probe array is a synthesized array.

Claim 7. [Cancelled]

Claim 8. [Currently Amended] The method of claim [[7]]1, wherein:

the user-selected grid aligning parameters include any one or more of the group consisting of a fixed algorithm shape with easy threshold, a fixed algorithm shape with tight threshold, a variable algorithm shape with easy threshold, or a variable algorithm shape with tight threshold, or an estimated feature size.

- Claim 9. [Currently Amended] The method of Claim [[7]]1, wherein:

 the user selected grid aligning parameters include an estimated probe feature size based upon includes a dimension of a depositing element.
- Claim 10. [Original] The method of claim 1, further comprising the step of:

 (f) scanning a first probe array to generate the first and second images prior to performing step (a).
- Claim 11. [Original] The method of claim 10, wherein: the first and second images are scanned sequentially.
- Claim 12. [Original] The method of claim 10, wherein:
 the first and second images are scanned in parallel using two excitation beams.

- Claim 13. [Original] The method of claim 1, further comprising the steps of:
- (f) retrieving the grid alignment data responsive to an indication to analyze one or more images in addition to the first and second images; and
- (g) analyzing each of the one or more additional images based on the retrieved grid alignment data.
- Claim 14. [Original] The method of claim 13, further comprising the steps of:
 - (h) receiving a user selection of a number of images to scan; and
 - (i) scanning the user-selected number of images.
- Claim 15. [Original] The method of claim 14, further comprising the step of:
 - (j) receiving a user selection of one or more parameters for scanning.
- Claim 16. [Original] The method of claim 15, wherein:

the one or more parameters for scanning include a gain for one or more of the user-selected number of images.

Claim 17. [Original] The method of claim 15, wherein:

the one or more parameters for scanning include an indicator of an excitation source for one or more of the user-selected number of images.

- Claim 18. [Currently Amended] A computer program product, stored on a computer readable medium. comprising:
- (a) a GUI manager that receives one or more user-selected grid aligning parameters, wherein the user-selected grid aligning parameters include an estimated probe feature size:
- ([[a]]b) a grid aligner that aligns a grid with a first image based, at least in part, upon the one or more user-selected grid aligning parameters; and
 - ([[b]]c) an image analysis manager comprising
- (i) an image analyzer that generates grid alignment data based on the alignment of the grid with the first image,

- (ii) an image analysis data storer that stores the grid alignment data in memory, and
- (iii) a multiple scan alignment controller that retrieves the grid alignment data responsive to an indication to analyze a second image;

wherein the image analyzer analyzes the second image based on the retrieved grid alignment data.

- Claim 19. [Original] The computer program product of claim 18, wherein: the first image is generated by scanning a first probe array; and the second image is generated by scanning the first probe array.
- Claim 20. [Original] The computer program product of claim 19, wherein:

 the first image is generated by scanning the first probe array with a first excitation beam; and

the second image is generated by scanning the first probe array with a second excitation beam.

- Claim 21. [Original] The computer program product of claim 20, wherein: the first excitation beam has a first wavelength; and the second excitation beam has a second wavelength different from the first wavelength.
- Claim 22. [Original] The computer program product of claim 19, wherein: the first probe array is a spotted array.
- Claim 23. [Original] The computer program product of claim 19, wherein: the first probe array is a synthesized array.

Claim 24. [Cancelled]

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Claim 25. [Currently Amended] The computer program product of claim [[24]]18, wherein:

the user-selected grid aligning parameters include any one or more of the group consisting of a fixed algorithm shape with easy threshold, a fixed algorithm shape with tight threshold, a variable algorithm shape with easy threshold, or a variable algorithm shape with tight threshold, or an estimated feature size.

Claim 26. [Currently Amended] The computer program product of Clairo [[25]]18, wherein:

the user-selected grid-aligning parameters include an estimated probe feature size based-upon includes a dimension of a depositing element.

Claim 27. [Currently Amended] A scanning system, comprising:

a scanner that scans a first probe array to generate a first image and a second image; and

a computer program product, comprising

(a) a GUI manager that receives one or more user-selected grid aligning parameters, wherein the user-selected grid aligning parameters includes an estimated probe feature size:

([[a]]b) a grid aligner that aligns a grid with the first image based, at least in part, upon the one or more user-selected grid aligning parameters; and

([[b]]c) an image analysis manager including

- (i) an image analyzer that generates grid alignment data based on the alignment of the grid with the first image,
- (ii) an image analysis data storer that stores the grid alignment data in memory, and
- (iii) a multiple scan alignment controller that retrieves the grid alignment data responsive to an indication to analyze the second image;

wherein the image analyzer analyzes the second image based on the retrieved grid alignment data.

- Claim 28. [Original] The system of claim 27, wherein: the first and second images are scanned sequentially.
- Claim 29. [Original] The system of claim 27, wherein: the first and second images are scanned in parallel using two excitation beams.
- Claim 30. [Original] The system of claim 27, wherein:

the computer program product further includes a GUI manager that receives a user-selected number of images to scan, wherein the number is greater than one; and the scanner scans the first probe array to generate the user-selected number of images, including the first and second images.

Claim 31. [Original] The system of claim 30, wherein:

the user-selected number of images to scan is greater than two;

the multiple scan alignment controller retrieves the grid alignment data responsive to an indication to analyze one or more images in addition to the first and second images; and

the image analyzer analyzes at least one of the one or more additional images based on the retrieved grid alignment data.

- Claim 32. [Currently Amended] A scanning system, comprising:
- a scanner that scans a first probe array to generate a first image and a second image;
 - a computer; and
- a computer program product that, when executed on the computer, performs a method comprising the steps of:
- (a) a GUI manager that receives one or more user-selected grid aligning parameters, wherein the user-selected grid aligning parameters includes an estimated probe feature size;

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- ([[a]]b) aligning a grid with the first image based, at least in part, upon the one or more user-selected grid aligning parameters;
- ([[b]]c) generating grid alignment data based on the alignment of the grid with the first image,
 - ([[c]]d) storing the grid alignment data in memory;
- ([[d]]e) retrieving the grid alignment data responsive to an indication to analyze the second image; and
- ([[e]]f) analyzing the second image based on the retrieved grid alignment data.
- Claim 33. [Currently Amended] A method comprising the steps of:
- (a) receiving one or more user-selected grid aligning parameters, wherein the user-selected grid aligning parameters includes an estimated probe feature size;
- ([[a]]b) aligning a grid with a first image based, at least in part, upon the one or more user-selected grid aligning parameters;
- ([[b]]c) generating grid alignment data based on the alignment of the grid with the first image;
 - ([[c]]d) storing the grid alignment data in memory;
- ([[d]]e) retrieving the grid alignment data responsive to an indication to analyze a second image; and
- ([[e]]f) analyzing the second image based on the retrieved grid alignment data; wherein the first image is generated by scanning a first probe array and the second image is generated by scanning a second probe array different from the first probe array.